FireWire

Guppy PRO
F-125

- Compact 1.2 MP camera
- Robust metal housing
- 31 fps
- Optocoupled I/Os

Concentrated simplicity
Guppy PRO – Small economical FireWire camera

Guppy PRO F-125 with Sony ICX445 runs 31.0 frames per second at 1.2 MP resolution.

The Guppy PRO is Allied Vision's smallest economical FireWire camera. Its ultra-compact and extremely robust industrial housing unites quality with performance and enables it to be integrated in the smallest spaces. The wide range of CCD and CMOS sensors with a range of different resolutions enables you to choose the ideal Guppy PRO for your particular needs.

Easy software integration with Allied Vision's Vimba Suite and compatibility to the most popular third party image-processing libraries.

See the Customization and OEM Solutions webpage for hardware options.

Specifications

Interface	IEEE 1394b - 800 Mb/s, 1 port
Resolution	1292 (H) × 964 (V)
Sensor	Sony ICX445
Sensor type	CCD Progressive
Sensor size	Type 1/3
Pixel size	3.75 µm × 3.75 µm
Lens mount (default)	C-Mount
Max. frame rate at full resolution	31 fps
ADC	14 Bit

Output

Bit depth	8-bit to 14-bit
Monochrome pixel formats	8/12/16
RGB color pixel formats	RGB8
Raw pixel formats	8/12/16

General purpose inputs/outputs (GPIOs)

Opto-isolated I/Os	1/3

Operating conditions/dimensions

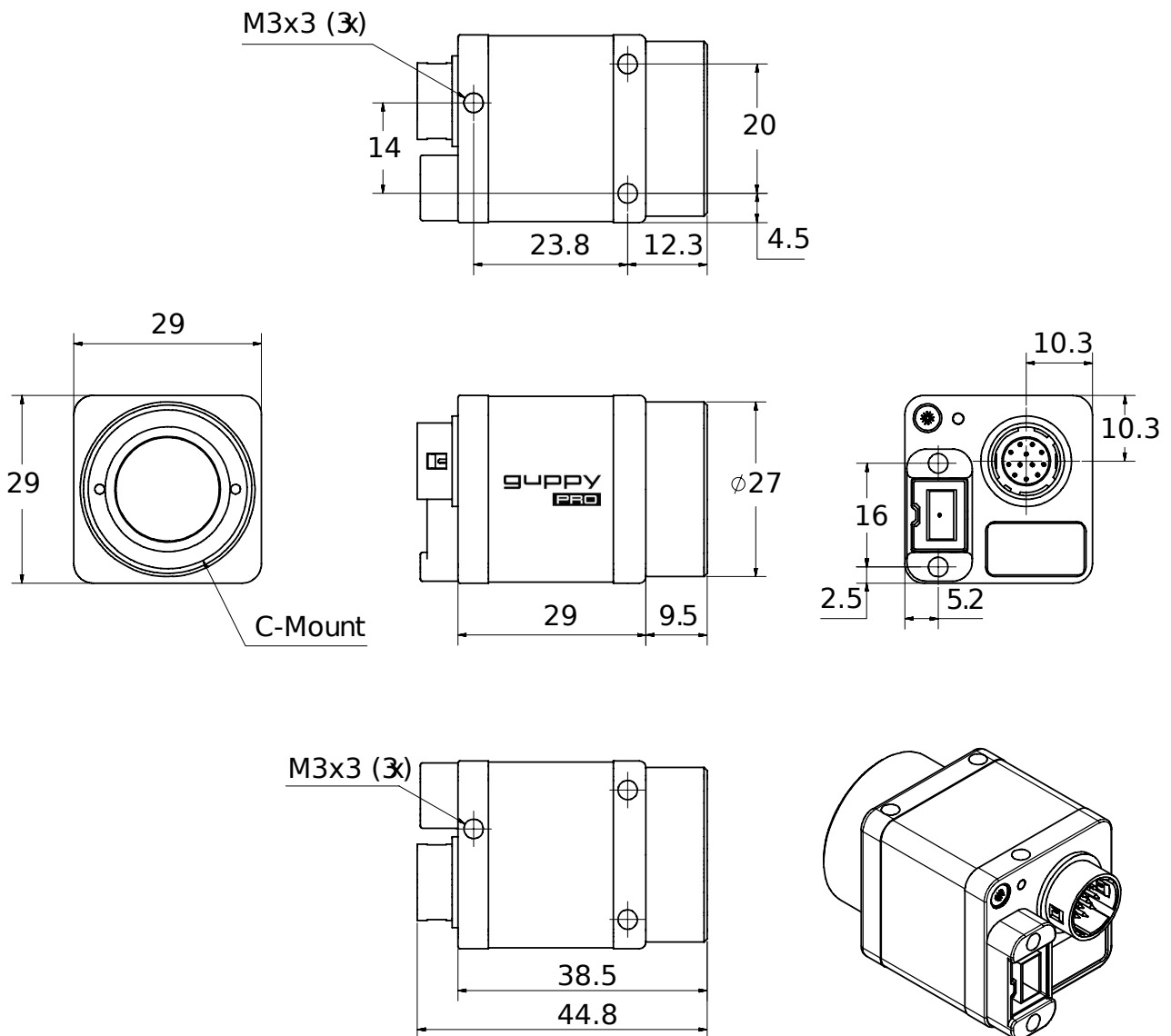|	
Operating temperature	+5 °C to +45 °C
Power requirements (DC)	8 V to 36 V
Power consumption	<3.5 W (@ 12 VDC)
Mass	80 g
Body dimensions (L × W × H in mm)	44.8 × 29 × 29 (including connectors)

Quantum efficiency
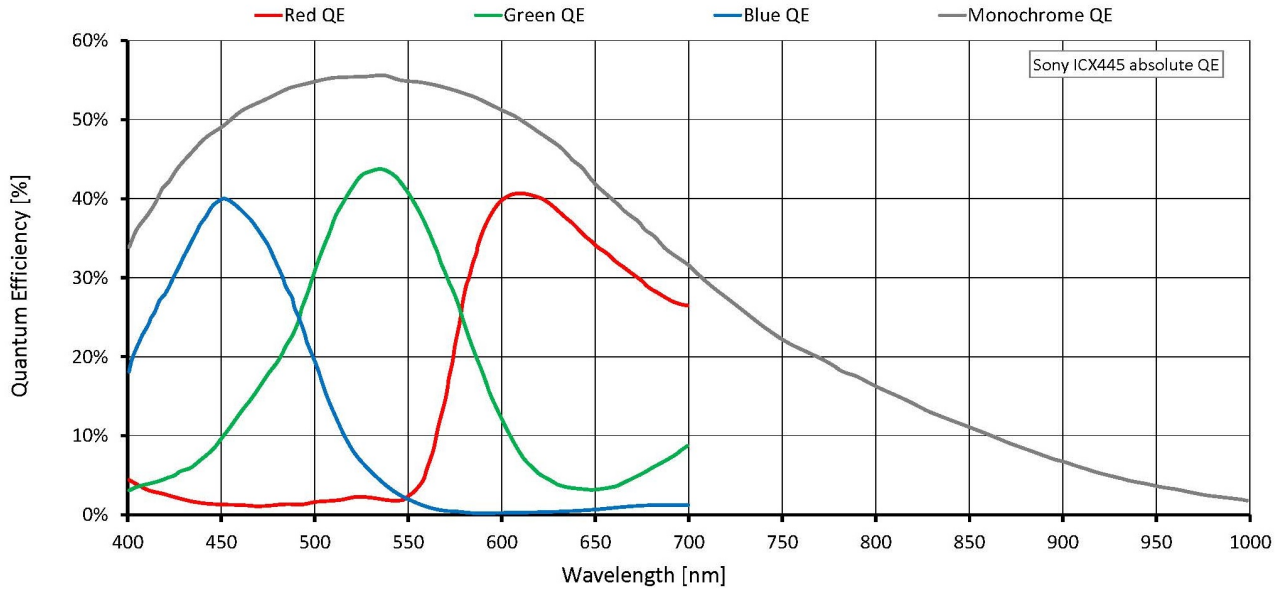
Features

- Look-up table (LUT)
- Gamma correction
- Color correction
- Area of interest (AOI), separate AOI for auto features
- Binning
- Sub-sampling
- Auto gain (manual gain control: 0 to 24.4 dB)
- Auto exposure (39 µs to 67 s)
- Trigger programmable, level, single, bulk, programmable delay
- Storable user sets

Scope of delivery

- Camera and IEEE 1394b cable (other configurations on request)

Technical drawing

M3x3 (3x)

14

20

23.8   12.3   4.5

29

29

C-Mount

guppy PRO

∅27

29   9.5

10.3

10.3

16

2.5   5.2

M3x3 (3x)

38.5

44.8

Applications

This FireWire camera is equipped with a sensitive Sony EXview HAD CCD sensor. With its ultra-compact housing, the Guppy PRO F-125B/F-125C can easily be integrated into your application.

Typical applications:

- Machine vision
- Robotics
- Logistics
- Security and surveillance
- Healthcare

- Ophthalmology
- Pharmaceutical industry
- Food inspection
- Motion analysis
- ITS/traffic monitoring